

## CLAIMS

1. A system for transmitting a GPS receiver code-phase search range to a  
2 integrated GPS/wireless terminal unit operating in a wireless network, said system comprising:
  - 4 a receiver operable to generate a GPS time reference;
  - 6 a controller operable to calculate a GPS code-phase search range with reference to a base station geographic location, the wireless coverage area, said GPS time reference and the estimated wireless signal propagation delay within said coverage area, and
  - 8 a transmitter coupled to said controller and operable to transmit said calculated GPS code search range.
2. The invention of Claim 1 wherein said GPS code-phase search range is defined by a center value and a size value.
3. A system for transmitting a GPS receiver code-phase search range to a  
2 integrated GPS/wireless terminal unit operating in a wireless network, comprising:
  - 4 a GPS receiver operable to generate a GPS time reference;
  - 6 means for obtaining a time offset for the GPS/wireless terminal unit relative to said GPS time reference;
  - 8 a controller operable to calculate a GPS code-phase search range with reference to a base station geographic location, the wireless coverage area, and said time reference; and
  - 10 a transmitter coupled to said controller and operable to transmit said calculated GPS code search range.
4. The invention of Claim 3 wherein said GPS code-phase search range is defined by a center value and a size value.

5. The invention of Claim 3 wherein said means for obtaining a time offset  
2 utilizes the round-trip wireless signal propagation time between said base station and  
the terminal unit to establish said time offset.

6. A system for transmitting a GPS receiver code-phase search range to a  
2 integrated GPS/wireless terminal unit operating in a wireless network, comprising:  
a GPS receiver operable to generate a GPS time reference;  
4 means for obtaining a time offset for the GPS/wireless terminal unit relative to  
said GPS time reference;  
6 means for obtaining a location reference for the GPS/wireless terminal unit;  
a controller operable to calculate a GPS code-phase search range with  
8 reference to said location reference, and said time reference; and  
a transmitter coupled to said controller and operable to transmit said calculated  
10 GPS code search range.

7. The invention of Claim 6 wherein said GPS code-phase search range is  
2 defined by a center value and a size value.

8. The invention of Claim 6 wherein said means for obtaining a location  
2 reference utilizes means for providing terrestrial based trilateration to establish said  
location reference.

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9. A method for defining a GPS receiver code-phase search range for an  
2 integrated GPS/wireless terminal unit operating in a wireless network having a base  
station, comprising the steps of:  
4 calculating a GPS code-phase search range with reference to the base station  
geographic location plus the wireless coverage area, and with reference to a base  
6 station GPS time reference plus the estimated wireless signal propagation delay within  
said coverage area and  
8 transmitting said calculated GPS code-phase search range.

10. The invention of Claim 9 wherein said GPS code-phase search range is  
2 defined by a center value and a size value.

11. A method for defining a GPS receiver code-phase search range for an  
2 integrated GPS/wireless terminal unit operating in a wireless network having a base  
station, comprising the steps of:  
4 obtaining a time reference for the GPS/wireless terminal unit establishing the  
time offset relative to the base station GPS time;  
6 calculating a GPS code-phase search range with reference to the base station  
geographic location plus the wireless coverage area, and said time reference; and  
8 transmitting said calculated GPS code-phase search range.

12. The invention of Claim 11 wherein said GPS code-phase search range is  
2 defined by a center value and a size value.

13. The invention of Claim 11 wherein said obtaining step utilizes the round-  
2 trip wireless signal propagation time between said base station and the terminal unit to  
establish the time offset.

14. A method for defining a GPS receiver code-phase search range for an  
2 integrated GPS/wireless terminal unit operating in a wireless network having a base  
station, comprising the steps of:

- 4 obtaining a time reference for the GPS/wireless terminal unit establishing the  
time offset relative to the base station GPS time;
- 6 obtaining a location reference for the GPS/wireless terminal unit;
- 8 calculating a GPS code-phase search range with reference to said location  
reference, and said time reference; and  
transmitting said calculated GPS code-phase search range by the base station.

15. The invention of Claim 14 wherein said GPS code-phase search range is  
2 defined by a center value and a size value.

16. The invention of Claim 14 wherein said obtaining a location reference  
2 step utilizes terrestrial based trilateration techniques to establish said location  
reference.

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